

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830



Article No.: 1 00022 00000 epple 22
Print date 11.04.2022 Revision date 07.03.2022
Version 6.3 11.04.2022

EN
Page 1 / 9

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Article No. (manufacturer/supplier): 1 00022 00000
Trade name/designation epple 22
Sealant

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses:

Sealing material for the sealing of different parts / buildinggroups

1.3. Details of the supplier of the safety data sheet

supplier (manufacturer/importer/downstream user/distributor)

E. Epple & Co. GmbH

Hertzstr. 8

71083 Herrenberg

Telephone: +49 7032 / 9771-17

Telefax: +49 7032 / 9771-60

www.epple-chemie.de

Department responsible for information:

laboratory

E-mail (competent person)

labor@epple-chemie.de

1.4. Emergency telephone number

Information center against poisoning Bonn

+49 (0) 228 / 19 240 (Advice in German)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Flam. Liq. 2 / H225

Flammable liquids

Highly flammable liquid and vapour.

Eye Irrit. 2 / H319

Serious eye damage/eye irritation

Causes serious eye irritation.

2.2. Label elements

The product is classified and labelled according to EC directives or corresponding national laws.

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



Danger

Hazard statements

H225

Highly flammable liquid and vapour.

H319

Causes serious eye irritation.

Precautionary statements

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P271

Use only outdoors or in a well-ventilated area.

P280

Wear protective gloves.

P501

Dispose of contents/container in accordance with local/regional/ national/international regulations.

Hazard components for labelling

not applicable

Supplemental hazard information

not applicable

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description solution of various copolymers

Hazardous ingredients

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830



Article No.: 1 00022 00000 epple 22
Print date 11.04.2022 Revision date 07.03.2022
Version 6.3 11.04.2022

EN
Page 2 / 9

Classification according to Regulation (EC) No 1272/2008 [CLP]

| EC No. CAS No. Index No. | REACH No. Designation classification: // Remark | weight-% |
|--------------------------------|--|-------------|
| 205-500-4 141-78-6 | 01-2119475103-46 Ethyl acetate | 9,9 - 19,9 |
| 607-022-00-5 | Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336 | |
| 200-578-6 64-17-5 | 01-2119457610-43 Ethanol | 24,9 - 49,9 |
| 603-002-00-5 | Flam. Liq. 2 H225 | |

Additional information

Full text of classification: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

Following skin contact

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

Following ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

In all cases of doubt, or when symptoms persist, seek medical advice.

4.3. Indication of any immediate medical attention and special treatment needed

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

Unsuitable extinguishing media

strong water jet

5.2. Special hazards arising from the substance or mixture

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3. Advice for firefighters

Provide a conveniently located respiratory protective device. Do not allow water used to extinguish fire to enter drains, ground or waterways. Cool closed containers that are near the source of the fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830



Article No.: 1 00022 00000 epple 22
Print date 11.04.2022 Revision date 07.03.2022
Version 6.3 11.04.2022

EN
Page 3 / 9

for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

6.4. Reference to other sections

Observe protective provisions (see section 7 and 8).

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advices on safe handling

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

Further information

Vapours are heavier than air. Vapours form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Floors must be electrically conductive.

Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 5 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values

Ethyl acetate

Index No. 607-022-00-5 / EC No. 205-500-4 / CAS No. 141-78-6

TWA: 730 mg/m³; 200 ppm

STEL: 1460 mg/m³; 400 ppm

Ethanol

Index No. 603-002-00-5 / EC No. 200-578-6 / CAS No. 64-17-5

TWA: 1920 mg/m³; 1000 ppm

Additional information

TWA : Long-term occupational exposure limit value

STEL : short-term occupational exposure limit value

Ceiling : peak limitation

DNEL:

Ethyl acetate

Index No. 607-022-00-5 / EC No. 205-500-4 / CAS No. 141-78-6

DNEL short-term oral (acute), Workers:

DNEL long-term dermal (systemic), Workers: 63 mg/kg bw/day

DNEL acute inhalative (local), Workers: 1468 mg/m³

DNEL acute inhalative (systemic), Workers: 1468 mg/m³

DNEL long-term inhalative (local), Workers: 734 mg/m³

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830



Article No.: 1 00022 00000 epple 22
Print date 11.04.2022 Revision date 07.03.2022
Version 6.3 11.04.2022

EN
Page 4 / 9

DNEL long-term inhalative (systemic), Workers: 734 mg/m³
DNEL short-term oral (acute), Consumer:
DNEL long-term dermal (systemic), Consumer: 37 mg/kg bw/day

Ethanol

Index No. 603-002-00-5 / EC No. 200-578-6 / CAS No. 64-17-5
DNEL long-term dermal (systemic), Workers: 343 mg/kg bw/day
DNEL acute inhalative (local), Workers: 1900 mg/m³
DNEL long-term inhalative (systemic), Workers: 950 mg/m³

PNEC:

Ethyl acetate

Index No. 607-022-00-5 / EC No. 205-500-4 / CAS No. 141-78-6
PNEC aquatic, freshwater: 0,26 mg/L
PNEC aquatic, marine water: 0,026 mg/L
PNEC aquatic, intermittent release: 1,65 mg/L
PNEC sediment, freshwater: 1,25 mg/kg
PNEC sediment, marine water: 0,125 mg/kg
PNEC, soil: 0,24 mg/kg
PNEC sewage treatment plant (STP): 650 mg/L

Ethanol

Index No. 603-002-00-5 / EC No. 200-578-6 / CAS No. 64-17-5
PNEC aquatic, freshwater: 0,96 mg/L
PNEC aquatic, marine water: 0,79 mg/L
PNEC aquatic, intermittent release: 2,75 mg/L
PNEC sediment, freshwater: 3,6 mg/kg d.w.
PNEC sediment, marine water: 2,9 mg/kg d.w.
PNEC, soil: 0,63 mg/kg food
PNEC Secondary Poisoning: 0,72 mg/kg food

8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

Personal protection equipment

Respiratory protection

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number. Recommendation: Half-face mask Filter type: ABEK-P2

Hand protection

For prolonged or repeated handling the following glove material must be used: Butyl caoutchouc (butyl rubber)
Thickness of the glove material > 0,4 mm ; Breakthrough time: > 480 min.

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles EN ISO 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye/face protection

Wear closely fitting protective glasses in case of splashes.

Body protection

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

Protective measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

Environmental exposure controls

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:

Appearance:

Colour:

Liquid

translucent

*

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830



Article No.: 1 00022 00000 epple 22
Print date 11.04.2022 Revision date 07.03.2022
Version 6.3 11.04.2022

EN
Page 5 / 9

| | |
|--|---|
| Odour: | like Solvents |
| Odour threshold: | not applicable |
| pH at 20 °C: | not relevant |
| Melting point/freezing point: | -114 °C Source: Ethanol |
| Initial boiling point and boiling range: | 77 °C Source: Ethyl acetate |
| Flash point: | -4 °C |
| Evaporation rate: | not applicable |
| flammability | |
| Burning time: | not applicable |
| Upper/lower flammability or explosive limits: | |
| Lower explosion limit: | 2 Vol-% Source: Ethyl acetate |
| Upper explosion limit: | 27,7 Vol-% Source: Ethanol |
| Vapour pressure at 20 °C: | 98,4 mbar Source: Ethyl acetate |
| Vapour density: | not applicable |
| Relative density: | |
| Density at 20 °C: | 0,93 g/cm³ |
| Solubility(ies): | |
| Water solubility at 20 °C: | partially miscible |
| Partition coefficient: n-octanol/water: | see section 12 |
| Auto-ignition temperature: | 400 °C Source: Ethanol |
| Decomposition temperature: | not applicable |
| Viscosity at °C: | 12 - 18 Pa*s |
| Explosive properties: | not applicable |
| Oxidising properties: | not applicable |

9.2. **Other information**

SECTION 10: Stability and reactivity

10.1. **Reactivity**

No information available.

10.2. **Chemical stability**

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

10.3. **Possibility of hazardous reactions**

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.4. **Conditions to avoid**

Hazardous decomposition byproducts may form with exposure to high temperatures.

10.5. **Incompatible materials**

not applicable

10.6. **Hazardous decomposition products**

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

SECTION 11: Toxicological information

Classification according to Regulation (EC) No 1272/2008 [CLP]

11.1. **Information on toxicological effects**

Acute toxicity

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830



Article No.: 1 00022 00000 epple 22
Print date 11.04.2022 Revision date 07.03.2022
Version 6.3 11.04.2022

EN
Page 6 / 9

Ethyl acetate
oral, LD50, Rat: > 2000 mg/kg
dermal, LD50, Rabbit: > 18000 mg/kg
inhalative (vapours), LC50, Rat: > 22,5 mg/L (6 h)

Ethanol
oral, LD50, Rat: 10470 mg/kg
Method: OECD 401
inhalative (vapours), LC50, Rat: 116,9 mg/L (4 h)
Method: OECD 403

Skin corrosion/irritation; Serious eye damage/eye irritation

Causes serious eye irritation.

Ethyl acetate
eyes, Rabbit: Evaluation mild irritant.
Method: OECD 405
Skin, Rabbit (4 h): Evaluation non-irritant.

Respiratory or skin sensitisation

Ethyl acetate
Skin, Guinea pig: ; Evaluation not sensitising.
Method: OECD 406

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Based on available data, the classification criteria are not met.

STOT-single exposure; STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Practical experience/human evidence

Overall Assessment on CMR properties

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

Remark

There is no information available on the preparation itself .

SECTION 12: Ecological information

Classification according to Regulation (EC) No 1272/2008 [CLP]
Do not allow to enter into surface water or drains.

12.1. Toxicity

Ethyl acetate
Fish toxicity, LC50, Pimephales promelas (fathead minnow): 230 mg/L (96 h)
Bacteria toxicity, NOEC:, Pseudomonas putida: 650 mg/L (16 h)

Ethanol
Fish toxicity, LC50, Pimephales promelas (fathead minnow): 14200 mg/L (96 h)
Method: US EPA method E03-05
Algae toxicity, ErC50, Chlorella vulgaris: 275 mg/L (72 h)
Method: OECD 201
Daphnia toxicity, LC50, Ceriodaphnia dubia: 5012 mg/L (48 h)
Method: ASTM E729-80
Fish toxicity, EC50, Pimephales promelas (fathead minnow): 12,9 g/L (96 h)
Method: US EPA method E03-05
Algae toxicity, ErC50, Chlorella vulgaris: 675 mg/L (96 h)
Method: OECD 201

Long-term Ecotoxicity

Ethyl acetate
Fish toxicity, NOEC, Pimephales promelas (fathead minnow): < 9,65 mg/L (32 d)
Daphnia toxicity, NOEC, Daphnia magna: 2,4 mg/L (21 d)
Bacteria toxicity, NOEC, Pseudomonas putida: 650 mg/L (16 h)

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830



Article No.: 1 00022 00000 epple 22
Print date 11.04.2022 Revision date 07.03.2022
Version 6.3 11.04.2022

EN
Page 7 / 9

Method: DIN 38412

Ethanol

Fish toxicity, NOEC, Danio rerio : 250 mg/L (120 h)

Method: OECD 212

Daphnia toxicity, NOEC, Ceriodaphnia dubia: 9,6 mg/L (10 d)

Daphnia toxicity, LC50, Ceriodaphnia dubia: 1806 mg/L (10 d)

Daphnia toxicity, LC50, Daphnia magna (Big water flea): 454 mg/L (9 d)

12.2. Persistence and degradability

Ethyl acetate

Biodegradation, aerobic: 69 % (20 d); Evaluation Readily biodegradable

Ethanol

Biodegradation: 84 % (20 d)

12.3. Bioaccumulative potential

Ethanol

Partition coefficient: n-octanol/water: -0,77

Bioconcentration factor (BCF)

Ethyl acetate

Bioconcentration factor (BCF), Leuciscus idus (golden orfe): 30

12.4. Mobility in soil

Toxicological data are not available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate disposal / Product Recommendation

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

List of proposed waste codes/waste designations in accordance with EWC

080409* Waste adhesives and sealants containing organic solvents or other dangerous substances

*Hazardous waste according to Directive 2008/98/EC (waste framework directive).

Appropriate disposal / Package

Dispose of packaging and contaminated filters at a official hazardous waste incinerator facility.

Recommendation:

Waste codes / waste designations according to EWC / AVV: 15 01 10*

SECTION 14: Transport information

14.1. UN number

UN 1866

14.2. UN proper shipping name

Land transport (ADR/RID): Resin solution
Sea transport (IMDG): RESIN SOLUTION
Air transport (ICAO-TI / IATA-DGR): Resin solution

14.3. Transport hazard class(es)

3

14.4. Packing group

Land transport (ADR/RID): III
for packages > 450 litres: II
Sea transport (IMDG): III
for packages > 450 litres: II
Air transport (ICAO-TI / IATA-DGR): III

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830



Article No.: 1 00022 00000 epple 22
Print date 11.04.2022 Revision date 07.03.2022
Version 6.3 11.04.2022

EN
Page 8 / 9

for packages > 30 litres: II

14.5. Environmental hazards

Land transport (ADR/RID) not applicable
Marine pollutant not applicable

14.6. Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

Further information

Land transport (ADR/RID)

tunnel restriction code E
for packages > 450 litres: D/E
special prescription 640D

Sea transport (IMDG)

EmS-No. F-E, S-E

Air transport (ICAO-TI / IATA-DGR)

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU legislation

Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]

VOC-value (in g/L): 503

National regulations

Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Substance/product listed in the following inventories:

AICS no information
DSL no information
IECSC no information
KECI listed
MITI no information
PICCS no information
TSCA listet

15.2. Chemical Safety Assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

| EC No. CAS No. | Designation | REACH No. |
|-----------------------|---------------|------------------|
| 205-500-4 141-78-6 | Ethyl acetate | 01-2119475103-46 |
| 200-578-6 64-17-5 | Ethanol | 01-2119457610-43 |

SECTION 16: Other information

Full text of classification in section 3

Flam. Liq. 2 / H225 Flammable liquids Highly flammable liquid and vapour.
Eye Irrit. 2 / H319 Serious eye damage/eye irritation Causes serious eye irritation.
STOT SE 3 / H336 STOT-single exposure May cause drowsiness or dizziness.

Classification procedure

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]
Flam. Liq. 2 Flammable liquids On basis of test data.

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830



Article No.: 1 00022 00000 epple 22
Print date 11.04.2022 Revision date 07.03.2022
Version 6.3 11.04.2022

EN
Page 9 / 9

Eye Irrit. 2 Serious eye damage/eye irritation Calculation method.

Abbreviations and acronyms

| | |
|-----------|---|
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| OEL | Occupational Exposure Limit Value |
| BLV | Biological Limit Value |
| CAS | Chemical Abstracts Service |
| CLP | Classification, Labelling and Packaging |
| CMR | Carcinogenic, Mutagenic and Reprotoxic |
| DIN | German Institute for Standardization / German industrial standard |
| DNEL | Derived No-Effect Level |
| EAKV | European Waste Catalogue Directive |
| EC | Effective Concentration |
| EC | European Community |
| EN | European Standard |
| IATA-DGR | International Air Transport Association – Dangerous Goods Regulations |
| IBC Code | International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk |
| ICAO-TI | International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air |
| IMDG Code | International Maritime Code for Dangerous Goods |
| ISO | International Organization for Standardization |
| LC | Lethal Concentration |
| LD | Lethal Dose |
| MARPOL | Maritime Pollution: The International Convention for the Prevention of Pollution from Ships |
| OECD | Organisation for Economic Cooperation and Development |
| PBT | persistent, bioaccumulative, toxic |
| PNEC | Predicted No Effect Concentration |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| UN | United Nations |
| VOC | Volatile Organic Compounds |
| vPvB | very persistent and very bioaccumulative |

Further information

Classification according to Regulation (EC) No 1272/2008 [CLP]

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in section 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

* Data changed compared with the previous version